Attorney Docket 044508

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Gerald Quinnan et al.

Application No. 09/762,261

Filed: May 29, 2001

For: Expression and Characterization of HIV-1 Envelope Protein Associated With a Broadly Reactive Neutralizing Antibody Response

Group Art Unit: 1648 piner: Shanon

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AMENDMENT UNDER 37 d

In response to the Office Action dated June 18, 2002 (Paper No. 11), the period for response having been extended from September 18, 2002 to December 18, 2002 by payment of a three-month extension of time fee, please amend the above-referenced application as follows:

In the Specification:

Please replace the paragraph beginning at page 4, line 14, with the following paragraph:

Figure 3 (A): Inhibition of Reference 2-mediated neutralization of pseudoviruses by synthetic V3 peptides. The neutralization endpoints for 90% neutralization were calculated as described previously (Quinnan et al., 1999; Quinnan et al., 1998; Zhang et al., 1999; Park et al., 1998). Results shown are means of triplicate determinations. Dose-response effects of R2 linear 17-mer (open square) and cyclic (closed square) (SEQ ID NO: 2) and the 93TH966.8 cyclic (shaded square) (SEQ ID NO: 4) V3 peptides on neutralization of clone R2 pseudovirus. The peptide concentrations are 3×10 raised to the indicated power.

Please replace the paragraph beginning at page 7, line 6, with the following paragraph:

Polypeptides and peptides comprising any single domain may be of variable length but include the amino acid residues of Table 3 (SEQ ID NO: 1) which differ from previously sequenced envelope proteins. For instance, peptides of the invention which include all or part of the V3 domain may comprise the sequence: PM $X_1X_2X_3X_4X_5X_6X_7X_6X_9X_{10}Q$ (SEQ ID NO: 5), wherein X_1 - X_{10} are any natural or nonnatural amino acids (P refers to Proline, M refers to methionine and Q refers to Glutamine). Non-natural amino acids include, for example, beta-alanine (beta-Ala), or other omega-amino acids, such as 3-amino propionic, 2,3-diamino propionic (2,3-diaP), 4-amino butyric and so forth, alpha-aminisobutyric acid (Aib), sarcosine (Sat), ornithine (Orn), citrulline (Cit), t-butylalanine (t-BuA), t-butylglycine (t-BuG), N-

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